

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) An electro-luminescence display device, comprising:
gate lines;
data lines crossing the gate lines;
pixel cells at crossings of the gate lines and the data lines;
a gate driver that sequentially applies a gate signal to the gate lines during one horizontal period;
a gamma ~~voltage~~ driver that generates a plurality of gamma voltage signals corresponding to image data and a plurality of gamma current signals corresponding to the image data; and
a plurality of data driving circuits that apply the plurality of gamma voltage signals to the pixel cells along a data line during a first time of within the horizontal period and applying current signals corresponding the plurality of gamma ~~voltage~~ current signals to the pixel cells during a second time within the horizontal period after the first time of the horizontal period,
wherein each of the plurality of data driving circuits includes a voltage driver that applies the plurality of gamma voltage signals to the data lines to pre-charge the plurality of gamma voltage signals onto storage capacitors in the pixel cells, and a current driver that allows the plurality of gamma current signals ~~corresponding to the plurality of gamma voltage signals~~ to flow into the pixel cells.
2. (Original) The electro-luminescence display device according to claim 1, wherein the first time is shorter than the second time.
- 3-4. (Canceled).

5. (Previously Presented) The electro-luminescence display device according to claim 1, wherein the voltage driver includes:

a plurality of voltage driving blocks corresponding to each data line applying the plurality of gamma voltage signals; and

a plurality of first switches between each of the voltage driving blocks and each of the data lines, wherein the first switches are turned on by a control signal.

6. (Currently Amended) The electro-luminescence display device according to claim 5, wherein ~~said~~ the current driver includes:

a plurality of current driving blocks corresponding to each data line applying the plurality of gamma current signals ~~corresponding to the plurality of gamma voltage signals~~, ~~said~~ the current driving blocks having *i* blocks; and

a plurality of second switches between each of the current driving blocks and each of the data lines and wherein the second switches are turned on by a control signal.

7. (Original) The electro-luminescence display device according to claim 6, wherein the control signal remains at a first level during the first time and remaining at second level during the second time.

8-12. (Canceled).

13. (Currently Amended) A method of driving an electro-luminescence display device, comprising:

applying a gate signal from a gate driver during each horizontal period to select pixel cells along specific horizontal line;

applying a plurality of gamma voltage values corresponding to image data from a voltage driver to ~~the~~ data lines during a first time of within the horizontal period to pre-charge the plurality of gamma voltage value onto storage capacitors of the pixel cells; and

applying a plurality of gamma current signals corresponding to ~~the plurality of gamma voltage value~~ the image data to the data lines during a second time within the horizontal period after the first time.

14. (Canceled).

15. (Original) The method according to claim 13, wherein the first time is less than the second time.

16-22. (Canceled).